

### **Abstract**

The present invention provides methods and compositions of engineered cells for use in the continuous or transient delivery of growth factors and angiogenesis modulating agents, such as vascular endothelial growth factor (VEGF), in conjunction with constructs for replacing or augmenting organ functions. In one aspect of the invention, the genetically engineered cells can be immature cells that are capable of differentiating and assimilating into the target region. The methods of the present invention can be used to enhance vascularization locally at a target site in need of repair, growth, or implantation through the incorporation of autologous cells which have been genetically engineered to secrete a growth factor or angiogenesis modulating agent.

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